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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/182,626	1	10/29/1998	DAVID E. WANG	QCPA471	2210
23696	7590	06/07/2005		EXAMINER	
Qualcomm	Incorpora	ated	TRAN, HENRY N		
Patents Depa	artment				
5775 Morehouse Drive				ART UNIT	PAPER NUMBER
San Diego, CA 92121-1714				2674	
				DATE MAIL ED: 06/07/200	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/182,626	WANG ET AL.				
	Office Action Summary	Examiner	Art Unit				
		HENRY N. TRAN	2674				
Period fo	The MAILING DATE of this communication apport Reply	pears on the cover sheet with the c	orrespondence address				
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period or the toreply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	mely filed /s will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)🛛	Responsive to communication(s) filed on 18 Ja	anuary 2005.					
2a)⊠	This action is FINAL . 2b) This	action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)	Claim(s) <u>57-61</u> is/are pending in the applicatio 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>57</u> is/are rejected. Claim(s) <u>58-61</u> is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.					
Applicat	ion Papers						
10)⊠	The specification is objected to by the Examine The drawing(s) filed on 29 October 1998 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	: a) ☐ accepted or b) ☒ objected drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority (ınder 35 U.S.C. § 119						
12)□ a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachmen	t(s)						
	e of References Cited (PTO-892)	4) Interview Summary					
3) 🔲 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)				

DETAILED ACTION

This Office action is in response to the applicants' amendment received 1/18/05. The amendments to the claims have been entered. Claims 57-61 are pending in this application.

Applicant's remarks have been fully considered, with the results set forth as follows.

Drawings

- 1. The corrected Fig. 6 was <u>not</u> received on 1/18/05 (the attached substitute drawing sheet for Fig. 6 was not found in the above identified Amendment).
- 2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the claimed elements: "a microprocessor" (claims 57 and 58), "a bypassing circuit" and "a pull-up resistor" (claim 61) must be shown or the features canceled from the claims. No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet"

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pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

3. The disclosure is objected to because of the following informalities: the claimed feature "a bypassing circuit" and "a pull-up resistor" defined in claim 61 have no clear support in the specification.

For the purpose of this Office action, the examiner assumes that:

- (i) the "a bypassing circuit" comprises at least a transistor 66 and a resistor, e.g., R2; and
- (ii) the "a pull-up resistor" comprises a resistor, e.g., R, connected between the source and drain of the transistor 66.

Appropriate correction is required.

Claim Objections

4. Claim 58 is objected to because of the following informalities: The status identifier (i.e., (new)) for claim 58 is missing. Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claim 57 is rejected under 35 U.S.C. 103(a) as being unpatentable over Metroka et al (U.S. Patent No. 5,175,759, hereinafter referred to as "Metroka") in view of Bowen et al (U.S. Patent No. 6,046,730, hereinafter referred to as "Bowen")

Metroka teaches generally all including: a flip 104, a keypad 110; a body 102 connected to the flip by a hinge 112 and 114; a computer processor 502; a pin contact 306 having a contact conductance 302 dependent on the position of the flip relative to the body for providing an electrical connection; and the body comprising a processor 502 configured to provide interface to the user and the keypad 110 by connecting power to the keypad by utilizing power switch 508 and connecting a power supply to the keypad lighting circuit, which comprises a plurality of light emitting diodes (LEDs) 536-541 and a switch transistor 543 coupled to the microprocessor 502 for illuminating backlighting; see Fig.1-3 and 5; col. 3, lines 14-33; and col. 3, line 65 to col. 4, line 28; col. 6, lines 23-34.

However, Metroka does not teach: (i) a flip comprising a keypad and a keypad lighting circuit; and (ii) the body comprising a multiplexing circuit configured to alternate between connecting power to the keypad lighting circuit and connecting the keypad to a microprocessor through the pin contact.

Bowen teaches a multimedia terminal (MMT) 10 comprising: (i) a keypad 26 mounted on a flip 14 (a keyboard cover 14) configured to provide interface to the user and the keypad 26 by connecting power to the keypad by utilizing a microprocessor 50; and (ii) and a keyboard cover sensor 40 for providing input commands to the microprocessor 50; see Figs. 1A, 2A and 4; col. 4, lines 31-43; and col. 5, lines 31-42; col. 6, lines 9-30.

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the teachings of Metroka and of Bowen for producing the claimed invention by using the microprocessor as a multiplexing circuit for alternately connecting a power supply to the keypad lighting circuit and the keypad through the pin contact 306 as taught by Metroka and having keypad and keypad lighting circuit arranged on the flip as taught by Bowen because this would provide an improved user-friendly multimedia device that is compact, easily and conveniently to use. By this rationale, claim 57 is rejected.

Allowable Subject Matter

7. Claims 58-61 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

8. Applicant's arguments with respect to claims 57-61 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to HENRY N. TRAN whose telephone number is 571-272-7760.

The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, PATRICK N. EDOUARD can be reached on 571-272-7603. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HENRY N TRAN

Henry N. Tom

Primary Examiner

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